

数理生物学演習

第6回 ランダムな現象：
遺伝的浮動, ライト-フィッシャーモデル

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突然変異固定までの平均待ち時間

再現したい図

(ただし課題では集団サイズが異なる)

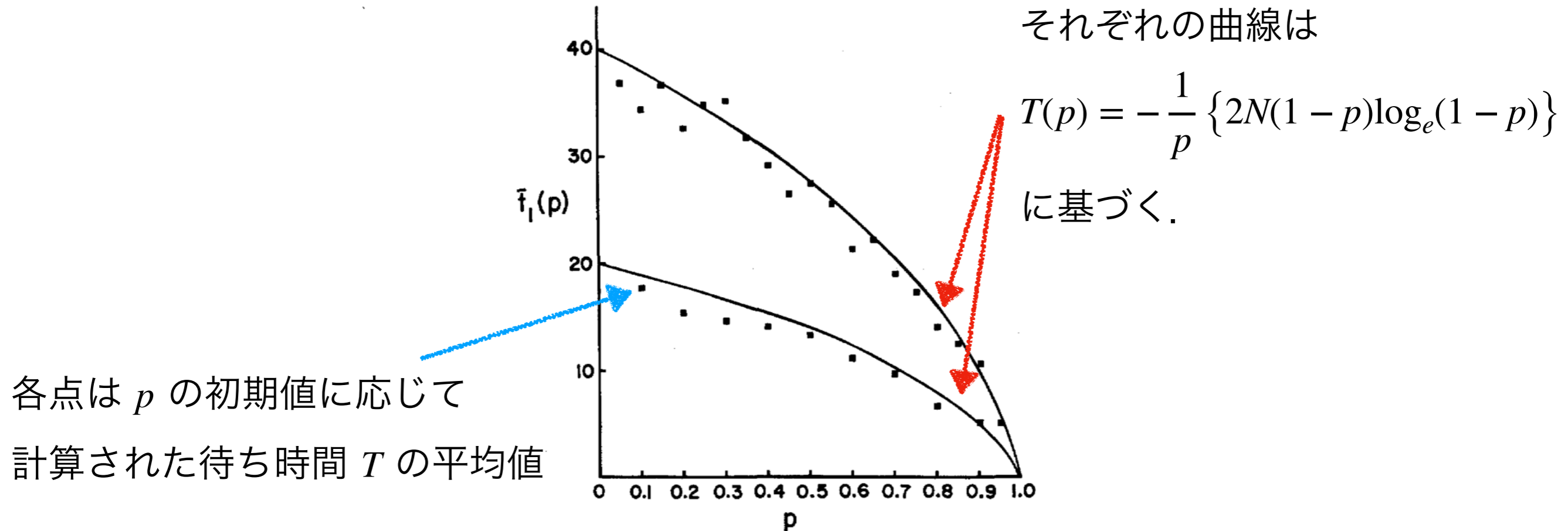


FIGURE 1.—Average number of generations until fixation of a selectively neutral mutant gene as a function of its initial frequency. The theoretical values are represented by curves and those of Monte Carlo simulation by dots. $2N_e=20$ in the upper curve and $2N_e=10$ in the lower one.

Kimura & Ohta, 1969, *Genetics*

- Kimura, M., Ohta, T. (1969). The Average Number of Generations until Fixation of a Mutant Gene in a Finite Population. *Genetics* 61(3), 763-71. <https://www.ncbi.nlm.nih.gov/pubmed/17248440>